

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/050246

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K31/704 A61P35/00 A61K31/282

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, EMBASE, BIOSIS, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	WO 03/082267 A (TURSI JENNIFER MARGARET ; FOWST CAMILLA (IT); GERONI MARIA CRISTINA RO) 9 October 2003 (2003-10-09) page 1, paragraph 1 page 4, paragraph 3 - page 4, line 21	1-15
X	"The combination of nemorubicin with cisplatin and mitomycin C is synergistic in experimental tumor models" November 2002 (2002-11), EUROPEAN JOURNAL OF CANCER, PERGAMON PRESS, OXFORD, GB, PAGE(S) S20 , XP004403486 ISSN: 0959-8049 abstract	1-18

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

20 July 2004

Date of mailing of the international search report

05/08/2004

Name and mailing address of the ISA

Authorized officer

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/050251

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K31/704

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, PAJ, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/38730 A (MASFERRER JAIME L ; GORDON GARY (US); SEARLE & CO (US); KOKI ALANE T () 6 July 2000 (2000-07-06) especially compound C-9 page 47 page 62, line 10 - line 11 page 75, line 3 - page 76, line 19 table 20 ----- -/-	1-45

☒ Further documents are listed in the continuation of box C.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *O* document referring to an oral disclosure, use, exhibition or other means
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- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

14 July 2004

Date of mailing of the international search report

28/07/2004

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 MV Rijswijk

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INTERNATIONAL SEARCH REPORT

International Application No.
PCT/EP2004/050246

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KABUTO M ET AL: "'Antitumor effect of MX2, a new morpholino anthracycline against C6 glioma cells and its combination effect with photodynamic therapy in vitro!" October 1995 (1995-10), NO TO SHINKEI. BRAIN AND NERVE. OCT 1995, VOL. 47, NR. 10, PAGE(S) 969 - 973 , XP009033767 ISSN: 0006-8969 abstract	1-3,6-15
X	"Preclinical activity against liver metastases of Nemorubicin, a DNA-intercalating cytotoxic agent for the treatment of hepatocellular carcinoma" EUROPEAN JOURNAL OF CANCER, PERGAMON PRESS, OXFORD, GB, vol. 38, November 2002 (2002-11), page S19, XP004403483 ISSN: 0959-8049 abstract	1-14
X	"Properties of the new anthracycline derivative containing modified daunosamine moiety" EUROPEAN JOURNAL OF CANCER, PERGAMON PRESS, OXFORD, GB, vol. 38, November 2002 (2002-11), pages S19-S20, XP004403485 ISSN: 0959-8049 abstract	1-15
X	US 4 672 057 A (BARGIOTTI ALBERTO ET AL) 9 June 1987 (1987-06-09) cited in the application the whole document	1-15
X	US 4 710 564 A (MIZOBUCHI SHIGEYUKI ET AL) 1 December 1987 (1987-12-01) cited in the application the whole document	1-15
X	GB 2 315 067 A (PHARMACIA SPA ; PHARMACIA & UPJOHN SPA (IT)) 21 January 1998 (1998-01-21) cited in the application the whole document	1-15
X	GB 2 296 495 A (PHARMACIA SPA ; ERBA CARLO SPA (IT)) 3 July 1996 (1996-07-03) cited in the application the whole document	1-15

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International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	BONNER J A ET AL: "Doxorubicin decreases the repair of radiation-induced DNA damage" 1990, INTERNATIONAL JOURNAL OF RADIATION BIOLOGY 1990 UNITED KINGDOM, VOL. 57, NR. 1, PAGE(S) 55-64 , XP009033771 ISSN: 0020-7616 abstract	1-15
Y	BONNER J A ET AL: "DOXORUBICIN ENHANCES RADIATION-INDUCED DNA DAMAGE" INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY, BIOLOGY, PHYSICS, vol. 15, no. SUPPL. 1, 1988, page 163, XP009033770 & 30TH ANNUAL MEETING OF THE AMERICAN SOCIETY FOR THERAPEUTIC RADIOLOGY AND ONCOLOGY, NEW ORLEANS, LOU ISSN: 0360-3016 abstract	1-15
Y	WU LI-TEH: "Doxorubicin as radiation potentiator: Concurrent doxorubicin and radiation therapy interaction and its clinical applications" INFUSION CHEMOTHERAPY: IRRADIATION INTERACTIONS: PRINCIPLES AND APPLICATIONS TO ORGAN SALVAGE AND PREVENTION OF SECOND PRIMARY NEOPLASMS ELSEVIER SCIENCE PUBLISHERS B.V., PO BOX 211, SARA BURGERHARTSTRAAT 25, 1000 AE AMSTERDAM, THE NETHERLANDS; ELSEV, 1998, pages 147-151, XP002289046 ISSN: 0-444-82608-4 the whole document	1-15
Y	JAGETIA GANESH CHANDRA ET AL: "Effect of doxorubicin on cell survival and micronuclei formation in HeLa cells exposed to different doses of gamma-radiation" STRAHLENTHERAPIE UND ONKOLOGIE, vol. 176, no. 9, September 2000 (2000-09), pages 422-428, XP002289047 ISSN: 0179-7158 abstract	1-15
Y	CHENOUIFI NORCHEN ET AL: "In vitro demonstration of synergy between radionuclide and chemotherapy" JOURNAL OF NUCLEAR MEDICINE, vol. 39, no. 5, May 1998 (1998-05), pages 900-903, XP009033769 ISSN: 0161-5505 abstract	1-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/050246

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